

03500.014089



PATENT

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent of:

TAIKO MOTOI ET AL.

Appln. No.: 09/443,308

Filed: November 19, 1999

For: ELECTRON-EMITTING DEVICE  
HAVING CARBON FILMS WITH A  
PARTICULAR ORIENTATION,  
ELECTRON SOURCE USING  
ELECTRON-EMITTING DEVICE, AND  
IMAGE FORMING APPARATUS

U.S. Patent No.: 6,917,146 B1

Issued: July 12, 2005

)  
: Examiner: Joseph L. Williams

)  
: Group Art Unit: 2879

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August 28, 2006

**Certificate**  
SEP 01 2006  
**of Correction**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

08/31/2006 MREKHE 00000107 6917146

01 FC:1811

100.00 UP

CERTIFICATE OF CORRECTION  
UNDER RULES 322 AND 323

08/31/2006 MREKHE 00000107 6917146

01 FC:1811

100.00 UP

Sir:

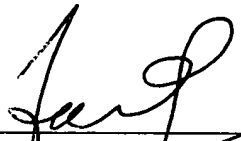
It is respectfully requested that a Certificate of Correction be issued by the Patent and Trademark Office due to errors which appear in the printed patent as a result of Patent and Trademark Office mistakes, and mistakes of a clerical, typographical, or minor character, which were not the fault of the Patent and Trademark Office. A Certificate of Correction form, in duplicate, is enclosed.

SEP 05 2006

Accompanying this letter is a check for \$100.00 to cover the statutory fee for such Certificate of Correction.

Patentees' undersigned attorney may be reached in our New York office by telephone at (212) 218-2100. All correspondence should continue to be directed to our address given below.

Respectfully submitted,



---

Frank A. DeLucia  
Attorney for Patentees  
Registration No. 42,476

FITZPATRICK, CELLA, HARPER & SCINTO  
30 Rockefeller Plaza  
New York, New York 10112-3801  
Facsimile: (212) 218-2200

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# UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 6,917,146 B1

DATED : July 12, 2005

INVENTOR(S) : TAIKO MOTOI ET AL.

Page 1 of 10

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

## ON COVER PAGE AT (30) FOREIGN APPLICATION PRIORITY DATA

"Feb. 22, 1999 (JP) ..... 11-0142908" should read --Feb. 22, 1999 (JP) ..... 11-042908--.

## ON COVER PAGE AT (56) FOREIGN PAGENT DOCUMENTS

"EP 0 701 265 3/1996" should read --EP 0 701 265 A1 3/1996--; and

"JP 0 701 265 A1 3/1996" should be deleted.

## COLUMN 1

Line 21, "emission", should read --Emission--;

Line 22, "thin-film field emission" should read --Thin-film Field Emission--;

Line 23, "cathodes with molybdenum cones" should read --Cathodes with Molybdenum Cones--; and

Line 26, "Mead", Operation" should read --Mead, "Operation--.

## COLUMN 2

Line 5, "stable" should read --a stable--;

Line 7, "istics controllable on stable" should read --istics are controllable on a stable--;

Line 14, "being" should read --acting as--;

Line 15, "lighten" should read --cause--;

Line 21, "or" should read --or during--;

Line 25, "driving" should read --driving--;

Line 40, "circumstance," should read --circumstances,--;

Line 48, "Further" should read --Further,--; and

Line 66, "having." should read --being--.

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COLUMN 3

Line 8, "covers" should read --cover--;  
Line 28, "stable" should read --a stable--;  
Line 30, "excellent" should read --are excellent--;  
Line 34, "stable" should read --a stable--;  
Line 44, "example of" should read --example--;  
Line 48, "of" should be deleted; and  
Line 49, "manufacturing" should read --a manufacturing--.

COLUMN 4

Line 15, "of" should read --of an--;  
Line 25, "manufacturing" should read --the manufacturing--;  
Line 44, "of" should read --of an--;  
Line 47, "of" (first occurrence) should read --of an--; and  
Line 53, "drawings" should read --drawings,--.

COLUMN 5

Line 59, "of approximate" should read --approximately--.

COLUMN 6

Line 13, "of" should be deleted;  
Line 14, "approximate" should read --approximately--;  
Line 19, "to heating" should read --to the heating--;  
Line 27, "having" should be deleted;  
Line 52, "having" should be deleted; and  
Line 56, "where" should read --where the--.

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COLUMN 7

Line 12, "on" should read --of--;  
Line 13, "having been" should be deleted;  
Line 31, "having" should be deleted;  
Line 38, "to the" should be deleted;  
Line 60, "further long" should read --longer--; and  
Line 47, "does" should read --do--.

COLUMN 8

Line 6, "is" should read --is a--;  
Line 7, "rations that" should read --ration in which--;  
Line 13, "the both" should read --both--;  
Line 14, "parties" should read --parts--; and "doe" should read --do--;  
Line 40, "are" should read --is--;  
Line 46, "this" should be deleted;  
Line 47, "length" should read --a length"; and  
Line 65, "have" should read --has--.

COLUMN 9

Line 11, "have" should read --has--;  
Line 26, "inconveniences" should read --inconvenience--;  
Line 31, "is" should read --are--;  
Line 43, "using for example" should read --using, for example,--; and  
Line 46, "costly" should read --a cost--.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

### COLUMN 10

Line 26, "of for" should read --of, for--;  
Line 27, "example" should read --example,--; and "not-shown" should read --a not-shown--;  
Line 29, "applying" should read --apply--;  
Line 34, "continuous" should read --a continuous--;  
Line 35, "having" should be deleted;  
Line 36, "having" should be deleted;  
Line 42, "of for example" should read --of, for example,--;  
Line 43, "ten" should read --tens of--; and "from" should read --form--;  
Line 45, "can be" should read --can also be--;  
Line 52, "for" should read --for the--;  
Line 55, "resistant" should read --resistance--;  
Line 57, "resistant" should read --resistance--;  
Line 61, "form" should read --forms--;  
Line 66, "acrylonitrile" should read --acrylonitrile,--; and  
Line 67, "to" should be deleted.

### COLUMN 11

Line 57, "possible, but heating" should read --possible. Heating--; and  
Line 67, "processing" should read --processing,--.

### COLUMN 12

Line 4, "feature" should read --features--;  
Line 7, "etc. which absorbed" should read --etc., which is absorbed--;  
Line 14, "is applicable" should be deleted;  
Line 53, "drawing having schematically shown" should read --graph showing--; and  
Line 64, "istic" should read --istics--.

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COLUMN 13

Line 51, "considering" should read --considering the--;  
Line 53, "to" should be deleted;  
Line 54, "micro meter" should read --micrometer--; and  
Line 65, "in only the point" should read --only--.

COLUMN 14

Line 15, "ends each" should read --ends to each--; and  
Line 65, "the both" should read --both--.

COLUMN 15

Line 5, "and," should read --and--; and "espe-" should be deleted;  
Line 6, "cially" should be deleted;  
Line 20, "from for example" should read --from, for example,--;  
Line 47, "is" should read --are--;  
Line 51, "to" should be deleted;  
Line 54, "electron" should read --an electron--; and "emitted a" should read --emitted, a--;  
and  
Line 62, "source" should read --sources--.

COLUMN 16

Line 22, "thus" should be deleted;  
Line 23, "unnecessary" should read --as unnecessary--;  
Line 30, "the atmosphere" should read --atmospheric--;  
Line 33, "only" should read --only the--;  
Line 46, "has" should read --have--; and  
Line 52, "to provide" should read --of providing--;  
Line 53, "from radiation" should read --to radiate--;

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Line 54, "of" (first occurrence) should read --off--; and "to direction" should read --in the direction--;

Line 55, "cause to act as electrode" should read --cause it to act as an electrode--;

Line 57, "bombering" should read --bombarding--; and

Line 60, "surface of" (first occurrence) should be deleted.

COLUMN 17

Line 19, "outline" should read --the outline--;

Line 20, "especially" should be deleted; and

Line 67, "each" should be deleted.

COLUMN 18

Line 3, "passing-" should read --pass--;

Line 45, "with acetone," should read --the substrate in which electrodes have been formed with acetone,--; and "the substrate in" should be deleted; and

Line 46, "which electrodes have been formed" should be deleted--.

COLUMN 19

Line 17, "Pas," should read --Pa,--;

Line 19, "which" should read --with--;

Line 20, "to" should be deleted;

Line 27, "which" should read --with--;

Line 28, "to" should be deleted;

Line 41, "to" should be deleted; and

Line 62, "it the" should read --it, the--.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 20

Line 2, "of" should read --of the--;  
Line 9, "obtain" should read --obtain a--;  
Line 12, "of" should read --of the--;  
Line 21, "have" should read --has--; and  
Line 54, "produced, and" should read --produced and,--.

COLUMN 21

Line 40, "to" should be deleted;  
Line 46, "pomp)," should read --pump),--; and  
Line 62, ", and" should read --.--;  
Line 63, "a" should read --A--;  
Line 65, "displayed, then no" should read --displayed. No--;  
Line 66, "not" should be deleted; and "place, highly" should read --place and highly--; and  
Line 67, "stable" should read --a stable--.

COLUMN 22

Line 8, "reach" should read --reaches--;  
Line 12, "to" should be deleted;  
Line 17, "to" should be deleted; and  
Line 22, "to" should be deleted--.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 23

Line 4, "with" should read --the substrate in which electrodes have been formed with--;  
and "the substrate" should be deleted;  
Line 5, "in which electrodes have been formed" should be deleted;  
Line 39, "has" should read --is--; and  
Line 40, "been" should read --being--;  
Line 46, "to" should be deleted;  
Line 50, "to" should be deleted; and  
Line 58, "to" should be deleted.

COLUMN 24

Line 27, "in" should read --by--;  
Line 28, "magnification," should read --magnification and--;  
Line 29, "out" should read --that--;  
Line 31, "it the" should read --it, that the--;  
Line 32, "the level of" should be deleted; and  
Line 34, "width" should read --the width--.

COLUMN 25

Line 23, "have" should read --has--; and  
Line 24, "borderline" should read --the borderline of--.

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COLUMN 27

Line 7, "in" should be deleted;  
Line 11, "far, and a" should read --far. A--;  
Line 14, "displayed, then no" should read --displayed. No--;  
Line 15, "not" should be deleted; and "place, highly" should read --place and highly--;  
Line 16, "stable" should read --a stable--;  
Line 29, "which" should read --with--;  
Line 30, "to" should be deleted;  
Line 37, "to" should be deleted;  
Line 50, "to" should be deleted;  
Line 58, "time" should read --times--;  
Line 61, "in" should be deleted;  
Line 66, "portions where" should read --portions,--; and  
Line 67, "it the" should read --it, that the--.

COLUMN 28

Line 1, "the level of" should be deleted;  
Line 11, "not have not been able to be found out." should read --been found.--;  
Line 33, "to be held" should be deleted;  
Line 34, "not to save any necessary" should read --to exhibit less--; and  
Line 57, "highly quality" should read --high quality--.

COLUMN 29

Line 62, "electrconductive" should read --electroconductive--.

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COLUMN 30

Line 2, "films;" should read --films; and--; and

Line 16, "gap;" should read --gap; and--.

COLUMN 32

Line 1, "thereof" should read --thereof,--;

Line 3, "and are" should read --are--; and

Line 6, "electoconductive" should read --electroconductive--.

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COLUMN 1

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Line 22, "thin-film field emission" should read --Thin-film Field Emission--;  
Line 23, "cathodes with molybdenium cones" should read --Cathodes with Molybdenum  
Cones--; and  
Line 26, "Mead", Operation" should read --Mead, "Operation--.

COLUMN 2

Line 5, "stable" should read --a stable--;  
Line 7, "istics controllable on stable" should read --istics are controllable on a stable--;  
Line 14, "being" should read --acting as--;  
Line 15, "lighten" should read --cause--;  
Line 21, "or" should read --or during--;  
Line 25, "driving" should read --driving--;  
Line 40, "circumstance," should read --circumstances--;  
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Line 34, "stable" should read --a stable--;  
Line 44, "example of" should read --example--;  
Line 48, "of" should be deleted; and  
Line 49, "manufacturing" should read --a manufacturing--.

COLUMN 4

Line 15, "of" should read --of an--;  
Line 25, "manufacturing" should read --the manufacturing--;  
Line 44, "of" should read --of an--;  
Line 47, "of" (first occurrence) should read --of an--; and  
Line 53, "drawings" should read --drawings,--.

COLUMN 5

Line 59, "of approximate" should read --approximately--.

COLUMN 6

Line 13, "of" should be deleted;  
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Line 27, "example" should read --example--; and "not-shown" should read --a not-shown--;  
Line 29, "applying" should read --apply--;  
Line 34, "continuous" should read --a continuous--;  
Line 35, "having" should be deleted;  
Line 36, "having" should be deleted;  
Line 42, "of for example" should read --of, for example--;  
Line 43, "ten" should read --tens of--; and "from" should read --form--;  
Line 45, "can be" should read --can also be--;  
Line 52, "for" should read --for the--;  
Line 55, "resistant" should read --resistance--;  
Line 57, "resistant" should read --resistance--;  
Line 61, "form" should read --forms--;  
Line 66, "acrylonitrile" should read --acrylonitrile--; and  
Line 67, "to" should be deleted.

COLUMN 11

Line 57, "possible, but heating" should read --possible. Heating--; and  
Line 67, "processing" should read --processing--.

COLUMN 12

Line 4, "feature" should read --features--;  
Line 7, "etc. which absorbed" should read --etc., which is absorbed--;  
Line 14, "is applicable" should be deleted;  
Line 53, "drawing having schematically shown" should read --graph showing--; and  
Line 64, "istic" should read --istics--.

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PATENT NO. : 6,917,146 B1

DATED : July 12, 2005

INVENTOR(S) : TAIKO MOTOI ET AL.

Page 5 of 10

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 13

Line 51, "considering" should read --considering the--;  
Line 53, "to" should be deleted;  
Line 54, "micro meter" should read --micrometer--; and  
Line 65, "in only the point" should read --only--.

COLUMN 14

Line 15, "ends each" should read --ends to each--; and  
Line 65, "the both" should read --both--.

COLUMN 15

Line 5, "and," should read --and--; and "espe-" should be deleted;  
Line 6, "cially" should be deleted;  
Line 20, "from for example" should read --from, for example,--;  
Line 47, "is" should read --are--;  
Line 51, "to" should be deleted;  
Line 54, "electron" should read --an electron--; and "emitted a" should read --emitted, a--;  
and  
Line 62, "source" should read --sources--.

COLUMN 16

Line 22, "thus" should be deleted;  
Line 23, "unnecessary" should read --as unnecessary--;  
Line 30, "the atmosphere" should read --atmospheric--;  
Line 33, "only" should read --only the--;  
Line 46, "has" should read --have--; and  
Line 52, "to provide" should read --of providing--;  
Line 53, "from radiation" should read --to radiate--;

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Page 6 of 10

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Line 54, "of" (first occurrence) should read --off--; and "to direction" should read --in the direction--;

Line 55, "cause to act as electrode" should read --cause it to act as an electrode--;

Line 57, "bombarding" should read --bombarding--; and

Line 60, "surface of" (first occurrence) should be deleted.

COLUMN 17

Line 19, "outline" should read --the outline--;

Line 20, "especially" should be deleted; and

Line 67, "each" should be deleted.

COLUMN 18

Line 3, "passing-" should read --pass---;

Line 45, "with acetone," should read --the substrate in which electrodes have been formed with acetone,--; and "the substrate in" should be deleted; and

Line 46, "which electrodes have been formed" should be deleted--.

COLUMN 19

Line 17, "Pas," should read --Pa,--;

Line 19, "which" should read --with--;

Line 20, "to" should be deleted;

Line 27, "which" should read --with--;

Line 28, "to" should be deleted;

Line 41, "to" should be deleted; and

Line 62, "it the" should read --it, the--.

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Page 7 of 10

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COLUMN 20

Line 2, "of" should read --of the--;  
Line 9, "obtain" should read --obtain a--;  
Line 12, "of" should read --of the--;  
Line 21, "have" should read --has--; and  
Line 54, "produced, and" should read --produced and,--.

COLUMN 21

Line 40, "to" should be deleted;  
Line 46, "pomp)," should read --pump),--; and  
Line 62, ", and" should read --.--;  
Line 63, "a" should read --A--;  
Line 65, "displayed, then no" should read --displayed. No--;  
Line 66, "not" should be deleted; and "place, highly" should read --place and highly--; and  
Line 67, "stable" should read --a stable--.

COLUMN 22

Line 8, "reach" should read --reaches--;  
Line 12, "to" should be deleted;  
Line 17, "to" should be deleted; and  
Line 22, "to" should be deleted--.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 23

Line 4, "with" should read --the substrate in which electrodes have been formed with--;  
and "the substrate" should be deleted;  
Line 5, "in which electrodes have been formed" should be deleted;  
Line 39, "has" should read --is--; and  
Line 40, "been" should read --being--;  
Line 46, "to" should be deleted;  
Line 50, "to" should be deleted; and  
Line 58, "to" should be deleted.

COLUMN 24

Line 27, "in" should read --by--;  
Line 28, "magnification," should read --magnification and--;  
Line 29, "out" should read --that--;  
Line 31, "it the" should read --it, that the--;  
Line 32, "the level of" should be deleted; and  
Line 34, "width" should read --the width--.

COLUMN 25

Line 23, "have" should read --has--; and  
Line 24, "borderline" should read --the borderline of--.

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Page 9 of 10

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

### COLUMN 27

Line 7, "in" should be deleted;  
Line 11, "far, and a" should read --far. A--;  
Line 14, "displayed, then no" should read --displayed. No--;  
Line 15, "not" should be deleted; and "place, highly" should read --place and highly--;  
Line 16, "stable" should read --a stable--;  
Line 29, "which" should read --with--;  
Line 30, "to" should be deleted;  
Line 37, "to" should be deleted;  
Line 50, "to" should be deleted;  
Line 58, "time" should read --times--;  
Line 61, "in" should be deleted;  
Line 66, "portions where" should read --portions,--; and  
Line 67, "it the" should read --it, that the--.

### COLUMN 28

Line 1, "the level of" should be deleted;  
Line 11, "not have not been able to be found out." should read --been found.--;  
Line 33, "to be held" should be deleted;  
Line 34, "not to save any necessary" should read --to exhibit less--; and  
Line 57, "highly quality" should read --high quality--.

### COLUMN 29

Line 62, "electroconductive" should read --electroconductive--.

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Page 10 of 10

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COLUMN 30

Line 2, "films;" should read --films; and--; and  
Line 16, "gap;" should read --gap; and--.

COLUMN 32

Line 1, "thereof" should read --thereof,--;  
Line 3, "and are" should read --are--; and  
Line 6, "electoconductive" should read --electroconductive--.

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